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GLINKIN, M. I.

Vi Medicine - Literature Sacitation Lug L9

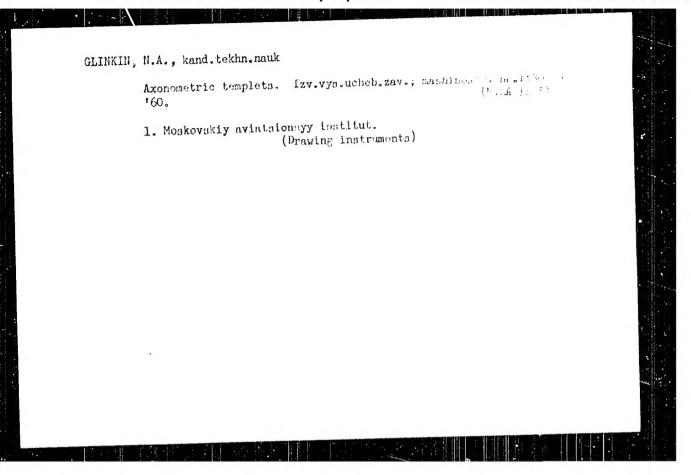
"Sanitation Service in the Days of the latrictic War: Vol. IX, Gunshot Ansurisms," Hedgiz, 1948, 1 p

"Khirurgiya" No 8

-

Volume contains the works of collavorators in two specialised hospitals of the Ural Mil Dist on clinical problems and treatment of transatic amountsms. Contributors are: L. M. Ratner, L. M. Protalinskays, M. K. Glinkin, L. D. Korabel'nikov, and A. I. Bogatov.

PA 1/50267



GLIMIE, N. M.: YERRESANOV, M. L.; ETKIN, G. S.;

Spravodnik Mastera Metalloobratyvayushehego Tsekha, published by Mosgismastprom, Moscow, 1970

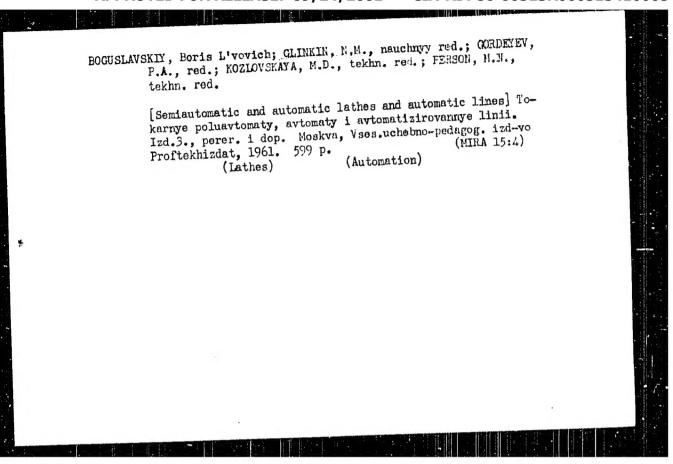
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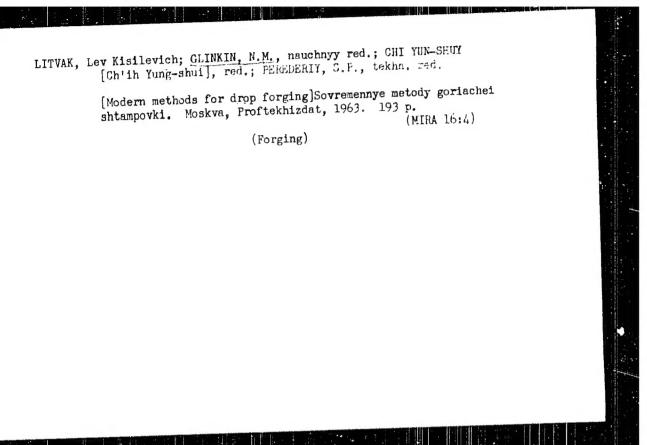
YEGOROV, M.Ye., zasluzhennyy deyatel' nauki i tekhniki, doktor tekhn.
nauk, prof.; GLIMKIN, N.M., dotsent, red.; KUNIH, P.A., red.;
CHERHOVA, Z.I., tekhn.red.; SOKOLOVA, T.F., tekhn.red.

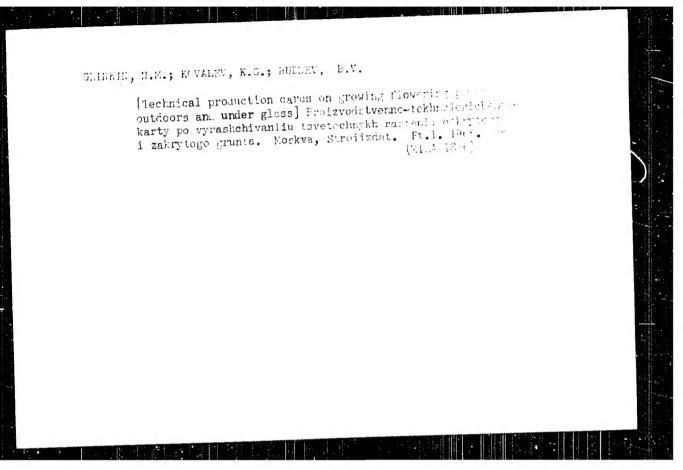
[Fundamentals of designing machinery plants] Osnovy proektirovaniis mushinostroitel'nykh zavodov. Izd.5., perer. Hoskva,
Gos.nauchno-tekhn.izd-vo mashinostroit.llt-ry, 1959. 480 p.

(Mina 12:11)

(Machinery industry)







ROUDELS, N.M., noth, krams, tekhn. nauk, otv. red., Avi HOHEN A.F., kand, tekhn.nauk, dotts, red.; FELZER, tile, between, tekhn. nauk, red.; MINSEAYEVICH, V.Ya., iots,, red. GLINKIN, P.F., red.

[Research on construction problems] Issleinzamila to voprosen streitel'stva. Minsk Isd-vo Meva typsheto, crednego spetsial'nogo i professional'nogo obrazovantia 5884, 1962. 165 p. (MIRA 18:4)

1. Minok. Belorusskiy politikanismeskiy Institut.

TSITOVICH, Igor' Sergeyevich; VAVULO, Vasiliy Andreyevich; KHVAL',
Boris Nikolayevich; GLINKIN, P.P., red.; MCHGUNOVA, G.M.,
tekhn. red.

[Gear wheels of motor vehicles and tractors; design] Zubchatye kolesa avtomobilet i traktorov; proektirovanie i raschet.
Minsk, Izd-vo M-va vysshego, srednego spetsial'nogo i professional'nogo obrazovaniia ESSR, 1962. 394 p.
(MIRA 16:4)

(Motor vehicles--Transmission devices) (Gearing)

Williams forcy lembers by la more are schoold burst harmstoristic. Loskva, 1960. 20 p., bulked, discret. (1970. hoster, notife)

Bibli gravity: p. 17.

Title tr.: Effect of wine tip shape on accedum its characteristics of the wing.

Fig. 4 21. We notife

3: Aeronautical Sciences and Aviation in the Soviet Shion, hibrary of Compress, 1955

CIANTING, N.I.

Category: USSR/Analytical Chemistry - Analysis of inorganic

G-2

substances.

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 30997

Author : Sinyakova S. I., Glinkina M. I.

: not given

: Polarographic Catalytic Molybdenum Current and Its Utilization

for Determination of Microgram-Amounts of Molybdemum.

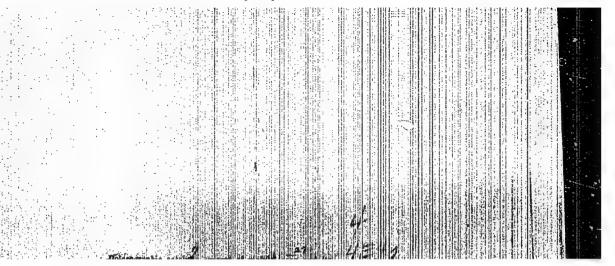
Orig Pub: Zh. analit. khimii, 1956, 11, No 5, 544-552

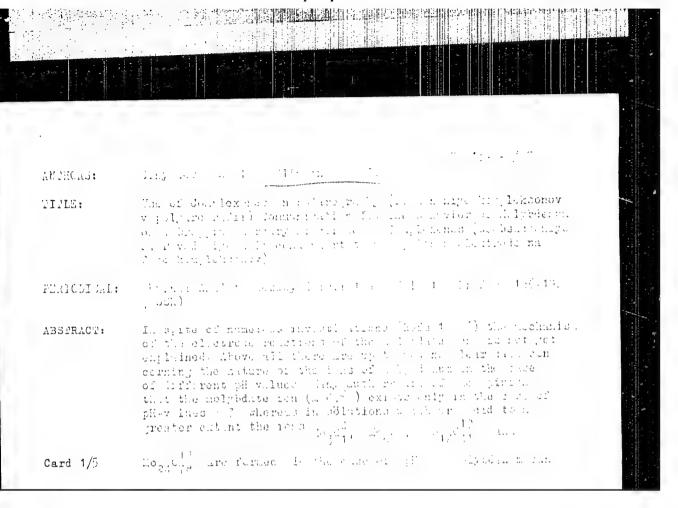
Abstract: Study of the catalytic wave (CW) of Mc with a background of 1 M $\rm HClO_4$ - 0.75 M H SO 4 and 1 M NaClO 4 - 0.75 M H SO 4. It was ascertained that in these media the Mo current does not depend on

mercury-column pressure and H₂SO₄ concentration, but depends on concentration of HClO₄ (or NaClO₄) and is due to exidation of Mo(4+), which is formed as a result of electrode reduction of Mo(5+) by the perchloric acid. The possibility is shown of determining the Mo on the basis of the CW, at concentrations up to 1 · 10-6 M, with a relative error not exceeding + 10%.

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reduction of [77] to gill in the investigation of the influence of extrinctions in the polarity to be determined for all plants of all plants in the polarity to be determined for all plants of all plants of the limitary a rent of all is well and that Fe² and Justic let the limitary a rent of all is and whereas the form of To the limitary a rent of all is much whereas the form of To the limitary and the processor of the reduction of the processor of the reduction of the reduct

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75 43 2 5/27

Use of Complexones in Polarography. Communication II. The Behavior of Molybdenum on a Dropping Mercury Electrode in Complexones

ASSOCIATION: Institut geokhimii i aniliticheskev hhimi in. 7. I.

Vernadskogo AN BSSR, Moskyn

(Moscow Institute of Geochemistry and Analytical Chemistry

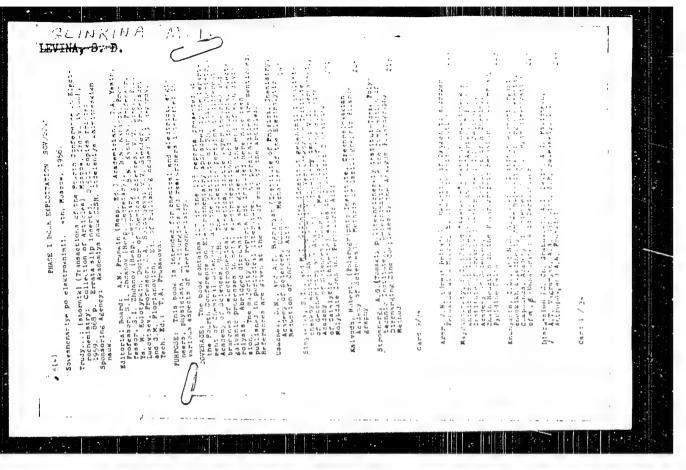
imeni V. I. Vernadskiy, Ad PSSR)

May 27, 1956 SUBMITTED:

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CIA-RDP86-00513R000515410005-0

\$/081/61/000,019/018/085 B101/B147

AUTHORS:

Studenikova, Z. V., Glinkina, M. I., Kornilova, K. I.

TITLE:

Card 1/2

Geochemistry of lungaten and molybdenum

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 19, 1961, 82, abstract 19611 (Sb. "Geokhim. tsikly". M., Gosgeoltekhizdat, 1960, 178-186)

TEXT: The authors present extensive material of facts established by them as well as published data characterizing the Mo and W distribution in magmatic rocks. The Mo: W ratio varies between 0.2 and 0.5 in different types of rock. A study of the distribution of these elements in genetically connected series of intrusive rocks showed an accumulation of W in the later border differentiation products (alaskites), with monotonic Mo content and a low increase of its content in basic rocks. Mo separates from W at the stage of formation of quartz diorites (granodiorites). Analytical data of the monomineral fractions show that the principal mass of the two elements is bound to feldspars and quartz, with Mo primarily accumulating in plagicalse. The localization of Mo and W in leucocratic

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CIA-RDP86-00513R000515410005-0

Geochemistry of tungsten...

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minerals is explained by peculiarities of the electronic shells requiring a 6-coordination in the form of a trigonal prism (which can be observed on plagioclase). This leads to an isomorphous substitution of Ca²⁺. In the autometamorphism of granites, the substitution of plagioclase by muscovite is due to de-anorthositation processes. Ca and W are set free and form small scheelite deposits, primarily in the anticlinal sections of granite massifs. W simultaneously accumulates at the pegmatite stage, and its content in quartz veins decreases. The Mo content in products of postmagmatic processes changes slightly, and increases inconsiderably in the quartz veins. Abstracter's note: Complete translation.

Card 2/2

STUDENIKOVA, 2. V.: GLINKINA, M. I.: KORNILOVA, K. I.

"Contribution to the geochemistry of tengsten and salybienus."

Paper submitted at the International Geological Congress XXI Session - 1,60 (Reports of Soviet Geologists) Problem No. 1, 15-2- Aug. 61

GLINKINA, V.N.; LAZARSHEO, B.R., doktor tekhn.mank, neuchnyy red.; KOVAL'SKAYA, I.F., tekhn.red.

[Electric spark machining of conducting materials; bibliography, 1955-1959] Elektroiskrovaia obrabotka tokoprovediashchikh materialov; bibliograficheskii ukazateli, 1955-1959. Moskva, 1960. 68 p. (MIRA 13:11)

1. Akademiya nauk SSSR. TSentral'naya nauchno-issledovatel'skaya laboratoriya elektricheskoy obrabotki materialov. 2. Nauchno-tekhnicheskaya biblioteka TSentral'noy nauchno-issledovatel'skoy laboratorii elektricheskoy obrabotki materialov AN SSSR (for Glinkine).

(Bibliography -- Electric metal cutting)

Veterinary Medicine
Work of the Moscow Veterinary Academy. Veterinaria 29 no. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.

Leproskiy, V.V., Kapustin, S.A., Glinkov, J.M. and AUTHOR: Slepkanev. P.N.

On the comparison of tilting and fixed open hearth TITLE: furnaces. (O aravnenii kachayushchikhsya i statsionarnykh martenovskikh pechey.)

Parlodical: "Stal'" (Steel), 1957, No. 5, pp. 411-415 (U.S.S.R.)

ABSTRACT: This paper is a comment on the paper by K.G. Trubin, "Stal'", 1956, No.9. The above subject is discussed in the light of the results of operating 250 ton tilting furnaces on the Azovstal' Works. For comparison with fixed furnaces the results obtained on the Zaporozhstal' Works are quoted. After indicating that the bottoms of tilting furnaces require more maintenance the authors compare the productivity of both types of furnaces. The dependence of the output per hour on the bottom surface (Fig. 1) and on furnace capacity (Fig. 2) indicates that for furnaces of the same bottom area and the same capacity the productivity of fixed furnaces is better. Thermal efficiency of tilting and fixed farmaces is compared on the basis of heat losses and the extent of preheating of gas and air (Fig. 3). The stability of roof refractories in tilting furnaces is lower than in fixed ones; Azovstal' - 29 kg/ton of steel while on the Makeyevsk dorks - 20 kg/ton. It

Card 1/2 is concluded that technical-economical indices of tilting

On the comparison of tiltin and fixed open hearth farm des. (Cont.) 133-5-6/27

furnaces are somewhat lower than those of fixed ones. A comparatively flexible slag operation of tilting furnaces is acknowledged, however, the removal of the first slag starts in the period of the maximum activity of the bath, when the composition of slag has not reached an optimum. In this respect the operation is similar to one on fixed furnaces. There are 4 figures and 5 references, 4 of which are Slavic.

ASSOCIATION: Azovstal' Works and Dhdanovsk Letillurgical Instituty. (Davol Azovstal' i Dhdanovskiy Letallurgial sakly

Institut.)

AVALLABIE:

Curd 2/2

SOV, 137-58-9-18607 D

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 63 (USSR)

AUTHOR: Glinkov, G.M.

TITLE: The Heat Absorption of an Open-hearth-furnace Bath as a Basic

Parameter of the Control of its Thermal Performance (Teplopogloshcheniye vanny martenovskoy pechi kak osnova reguliro-

vaniya teplovoy raboty)

ABSTRACT: Bibliographic entry on the author's dissertation for the de-

gree of Candidate of Technical Sciences, presented to the Mosk, in-t stali (Moscow Institute of Steel Industry), Moscow,

1958

ASSOCIATION: Mosk, in-t stall (Moscow Institute of Steel Industry), Moscow

1. Furnaces--Performance 2. Material -- Thermothemistry

Card 1/1

SOV 137-58 9 18569

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9 p5pfUSSR)

Kapustin, Ye. A., Makovskiy, V. A., Glinkov Gandan AUTHORS:

The Role of Oxygen-enriched Flame in Oxidation Processes of TITLE:

Open hearth Smelting (Rol' obogashchennogo kislorodom fakela

· okislitel'nykh protsessakh martenovskov plavši)

PERIODICAL: Iz., vyssh, uchebn zavedeniy. Chernaya metallurgiya,

1958, Nr J, pp 84-92

An experimental campaign carried out in a 370 ton open ABSTRACT:

hearth furnace of the "Azovstal" plant has shown that increased consumption of O_2 in the flame increases the oxidation capacity of the furnace, the oxidation capacity being detined as the passage of O2 into the molten metal per unit of time. It was noted that the boundary of the visible brightly luminuous flame is sharply reduced when O2 is introduced. Thus, at an O2 consumption of 2500 m 3/hr the length of the flame is reduced to one-half of the length of the hearth Gas samples taken along the length of the hearth revealed that

uncombusted components (CO, H2) are found only within the boundaries of the visible flame. At high rates of fuel

Card 1/2

SOV/i37 58 9 18569

The Role of Oxygen enriched Flame (cont.)

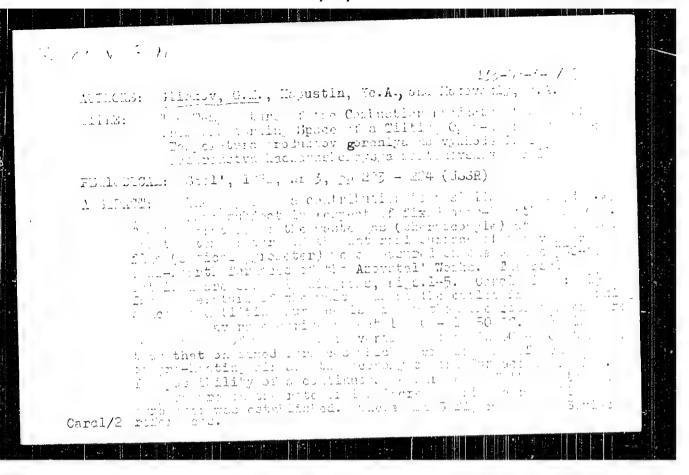
combustion and during trequent reversals (8-12 minutes), smalter quantities of combustible constituents are found in the central section of the furnace and it is for this reason that the gaseous phase attains its maximum oxidizing capacity in this area. The flame exhibits a maximum temperature near the first charge opening and a minimum temperature in the scinity of the litth opening (the temperature drop may be as great as 150-250°C). Analyses of the slag have indicated that the greatest content of Fe in the slag is found in the center of the furnace, in the scinity of the nozzles, where conditions are tavorable for the passing of Fe into the slag; this conclusion was fully substantiated by experiment. The thermal balance of the smelting process is very favorably affected when a portion of the oxygen of the one or of the conder is replaced by atmospheric oxygen. Thus, every ton of O2 absorbed from the furnace atmosphere reduces the amount of heat required for preheating and fusion by approximately 5 million kent.

1. Open hearth furnamental enforcemble | P. Fuels--Combustics

3. Oxygen - Ferformance 4. Clay - Archivero

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Card 2/2



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ASSCCIATION: Zarod "Accordal" (Zhamber he this plead to make her "Aroyand" Water)

AVAILABLE: Library of Compress

Card 2/2

133-58-4-33/40 Childry C. L. ATEROR:

Control of Buating Conditions by Main airing the Maximum Feat Absorption of on Open Hearth Bath (Regulirovaniye TITLE:

benlevago rozhim : podderzheniye i makaim (l'nogo to loye, locks only ord lovelog vane;

PERIODICAL: Stall, 1952, No. 4, no. 390-376 (USAF)

ABBERACT: The possibility of state made and simple determination of the value of the specific absorption of heat by the

bath and the coefficient of useful action of an open hearth furnee was investigated. In order to utilise

the value of heat absorption by the bath in order to control the thorner operation of an open hearth furnace, it was necessary to device a rapid method of furnace, it was necessary to device a rapid method of determination of the mean heat absorption of the bath at frequent but short time intervals. A method of

instintaneous reciprocal heat bal noe developed by VNITMAT (Ref.7) was tried. Specific heat consumption of the both (cal/m² hr) is calculated from a general formula:

2x + 2f + 200 - 2x - 2100

Card 1/4

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133-58-4-33/40

Control of Heating Conditions by Mainteining the Marinum Heat Absorption of an Open Fearth bath

where Q_{χ} - chemical hast of fuel;

 $\frac{1}{Q_{\rm f}}$ - physical re t of fuel and sir;

 ${\it Q}_{\rm CO}^{-}$ heat of sombustion of CO from the bath;

 $Q_{\rm vx}^{-}$ hear leaving the Jorkin, space with waste gas;

q_{los} - losses of idling;

72 - surface area of the bottom, n².

In order to find out the nature of changes of heat absorption in the course of the heat and its dependence on various factors 15 experimental heats were carried out on a 350 ton tilting furnace (Azovstal' Works) with a magnetite chronity roof operating with a high phosphorus pi. (P 1.4-1.7%) with 72-7% of hot iron in the charge. In order to determine the heat absorption by the bath by the method of instantaneous heat balance, the following measurements were carried out:

a) temperature of preheat of air ucing a cuction thermocouple in the vertical flue on 1 level 1 m above the

Card 2/4

133-58-4-33/40 Control of Meating Conditions by Maintainin : the Maximum Heat Absorption of an Open hearth Bath

platform, every 15-20 min; b) temperature of bas preheat with a suction thermoccuple; c) temperature of maste gas. The latter was measured every 15-20 min in the air vertical flue in the same place where the air temperature was measured. A thermocouple was introduced 40-50 on deep for 30-40 sec. The indications of this thera couple were tested with a suction theraccouple and found to be satisfactory. Using the above three temperatures and indication of inctruments on the consumption of fuel and air, the specific heat abcorption and the coefficient of useful action were calculated for each heat. The experimental heats were done under various the real and oxigen conditions. The results are shown in Fig.1 and the Table (for two heats). A commarizon of heat balances of tailed from the heat apportation carve and adjoulated for the whole heat inflicated that the ascuracy of instruction heat believes is about 10%. The dependence of heat absorption: on the null load - Fig. . On the rate of charging of Granular materials (Fig. 3A) and on the thornal load

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CIA-RDP86-00513R000515410005-0

133-58-4-33/40 Control of Measing Conditions by Maintaining the Maximum Heat Absorption of an Open Heart' Path

during melting - Pig. 3B, on the velocity of decerturisation - Fig. 4. It was eater listed that the air and waste gas temperature can be determined from measurements of the temperature of the internal surface of the wall of the vertical flue with a radiation pyrometer (Figs. 5, 6). It is pointed out that it would be advantageous to decien a scheme for a complete automatic control for open hearth furnaces, using as the main controlling parameter the specific consumption of heat by the bath which completely defines the thermal aperation of the furnace. The method described in the paper is suitable for instrumentation and thus can form a basis for developing an outcomatic control for open hearth furnaces. The work was carried out under the direction of I. G. Kazantsev, Professor, Doctor of Technical Science. There are 1 table, figures and 8 references, 7 of which Card 4/4 are Soviet, 1 English

1. Open hearth furnaces--locurol systems

307/133-58-9-8/30

Knaricency, A.S., Canadate of Tehnical Sciences, Docent, Buliskiy, M.T., Alimov, A.G., Glinkov, G.E. and Beloglovskiy, M.Sh., Engineers AUTHORS:

Optimum Temperature Conditions for Smelting Rimming Steel TITLE:

from Phosphorus Pig Iron (Optimal'nyy temperaturnyy rezhin

vyplavki kipyashchey svali iz fosforistogo chuguna)

PERIODICAL: Stal', 1958, Mr 8, pp 706 - 709 (USSR)

ABSTRACT: An outline of the smellin profile of rimming steris used

in the Azovetal' Works is given. On the basis of an analysis of the teaper sure data during the refining

period of a large much of hoot, the options metal temper-

ature at the beginning of boiling and before droxidation was established i. order to obtain steel with a low

consumption coefficient. The influence of the charging rate of additions during the refining period on the velocity of heating of metal - rigure 1; the influence of

the metal temperature at the beginning of pure boiling

on the number of ladles of setal of low and high consum tion coefficients - Figure 2; the influence of metal

temperature before desxidation on the number of ladles of

metal of high and low consumption coefficients - Figure 3;

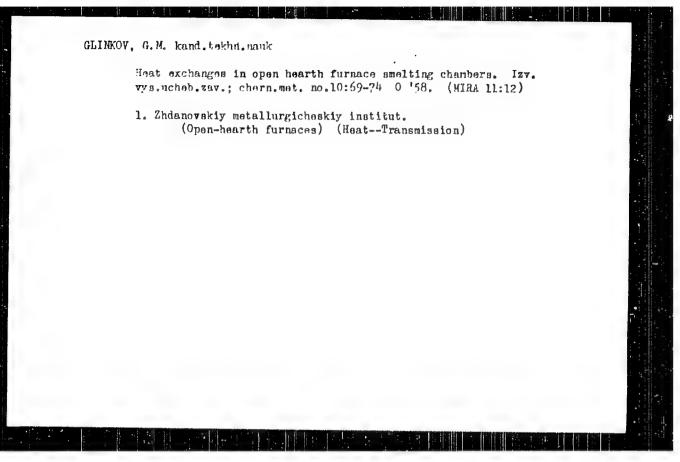
Card1/2

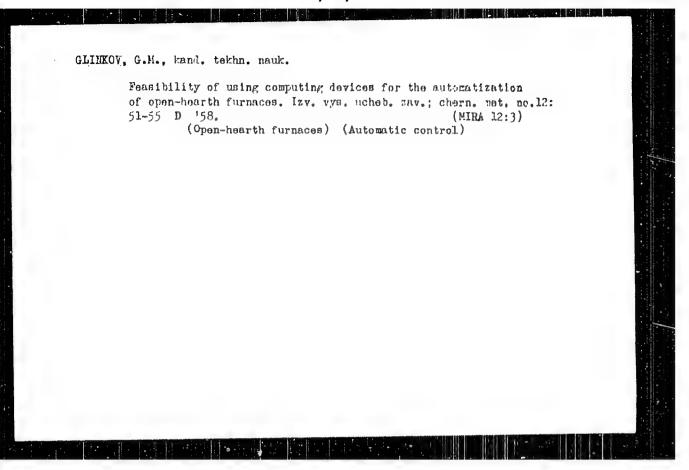
Optimum Temperature Constitions for Secretary Secretary Secretary Secretary Phosphorus Pig Iron

the influence of the [76]: [C] ratio in the finished rinning steels on the rounding coefficient of metal - Figures + and 5 (A): An energy distribution of the number of ladles of steel with different [Mn]: [C] ratios - Figure 5 (B). It was also established that it is advantageous to produce rin in steel with the manganese content in the ladle sample of ratio of [Mn] [C] in the finished steel should not exceed 2.7 for steels StO, 1 and 2kp and 2.5 for steel St3kp. There are 5 figures and 3 Soviet references.

ASSOCIATIONS: Zhdanovskiy metallur, icheskiy institut (Zhdanov Metallurgical Institute) and Zavad "Azavstal" ("Azavstal" Warks)

Gard 2/2 - Theel--Production 2 Object--Demperature factors





SOV/137 58 11 13682

Translation from: Referativnyy zhurnal Metallurgiya 1958, Nr II p 36 /USSR)

AUTHOR: Glinkov, G M.

TITLE: Heat Absorption in the Bath of an Open hearth Furnace During a Heat

as the Basis for Regulation of Thermal Conditions (Teplopoglo-shcheniye vanny martenovskoy pech; po khodu platki kak osnova

dlya regulirovaniya teplovov raboty)

PERIODICAL: Sb. Mosk. in t stall 1958, Vol 38 pp 112 134

ABSTRACT: Change in heat absorption (H) of the bath was determined for the

courses of 15 experimental heats in 350 trillting open hearth turnaces at the Azovstall plant equipped with chemically bonded magnesite chrome roofs two level checker parts heated by a mixture of coke and blast-furnace gases, and burning in an oxygen enriched blow. The method of measurement is described. Comparisons showed that the difference between the quantity of heat received by the bath and calculated on the total heat balance, and the same quantity of heat calculated by the method of inverse heat balance for one heat was 2 and for another 10.5 million keal, constituting altogether 2.8 and

Card 1/3 13.5% of the total heat output. The amount of H varies highly in the

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50V 137 58 11 1131

Heat Absorption in the Bath of an Open hearth Furrace During a Heat Con-

course of a heat. Ranging from an average of 150 180,000 kcal min hr during the charging period (180 220,000 during charging of iron scrap and blooms), 60 85 000 at the end of the meltdown period, 100 140,000 at the start of the melting period, 60-80,000 at the end of the melting period and fluctuating in the range of 42 70 000 during the finishing period. During charging melting down, and melting, H rises with increase in O, consumption The average for two groups of hears showed that when O2 delivery was increased from 1500 to 2500 m hr. H. rose from 153 to 186,000 kcal/m3, hr during the charging period, from 118 to 149,000 kcal m hr during the meltdown period. Horises with increases in thermal load the rise being the greater during the charging period the greater is the O, input A centical thermal conditions, H during the period of charging of tree flowing materials rises with the rate of charging. No such relationship was observed during the period of charging the metallic portion of the charge. The charge in the efficiency of the furnace during the heat (an analogous change in H) is as follows: Charging 33 1 37 0% meltdown 28.0-31 4%, melting 18 4 20 0% and finishing 12.8% Since he change in the H and the efficiency of the furnace during the heat provide a complete description of the thermal functioning of the furnace, the ut lization of the H of the bath or the efficiency of the furnace as input control ampulses permats the development of new designs for automatic regulation of the thermal regimes of turnaces (unlike ing Card 2/3

			18:
Heat Absorption in the	Bath of an Open hearth Formac	ce During a Heat (cont.)	4
computers), thereby p	ermitting a pronounced a consit	ication in the hermal fines	cring :
of the furnace.		Z_{-1}	4
Card 3/3			

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515410005-0

307/148-59-1-9/19 18(5)

Kapustin, Ye.A., Glinkov, G.M., Candidates of Technical Scien-AUTHORS:

ces and Kaluzhskiy, Ye.A., Engineer

Raising the Productivity and Economy of Open Hearth Furnace by TITLE:

Improving the Thermal Process (Povysheniye proizvoditel'nosti i ekonomichnosti martenovskoy pechi za schët usovershenstvo-

vaniya teplovogo rezhima)

Izvestiya vysshikh uchebnykh zavedeniy - Chernaya metallurgiya, PERIODICAL:

1959, Nr 1, pp 83-89 (USSR)

Experiments were carried out for the purpose of developing an improved heat process in open hearth furnaces, whereby optimum ABSTRACT:

correlation of blast air and mazut consumption during the smelt were determined. The following personalities participated in the work: A.A. Goshchanskiy, V.I. Doroknov, V.P. Yevtyukhov, D.P. Zabrodkin, V.F. Kalinkin, A.Ye. Prikhozhenko, V.D. Rudman, A.A. Rykhlikova, N.G. Stepin, I.S. Chernyshev. It was stated

that the determination of the blast expense depended on the components of air balance such as: air expense for fuel burning, oxidation of the pool, burning-out of CO, as well as loss of

air caused by leakages and air intake from the external space. Card 1/2

507/148-59-1-9/19

Raising the Productivity and Economy of Open Hear h Furnace by ${\tt Improving}$ the Thermal Process

Air intake and loss depended on the pressure in the smelting space. For the case that optimum pressure under the smelting space coupola could not be maintained, the blast expense must be adjusted accordingly. The developed thermal process regulates the thermal load depending on the charge material (loose or scrap); the quality of the scrap; duration of initial heating and idle time; and the smelting intensity. The new method reduced the smelting time by 6.4% and the specific fuel expense by 8.5%. The author presents graphs where the mazut expense is plotted versus the smelting time; the quantity of beads and the Fe-content in the slag; etc.

There are 8 graphs and 5 Soviet references.

ASSOCIATION:

Zhdanovskiy metallurgicheskiy institut (Zhdanov Metallurgical

Institute)

SUBMITTED:

October 1, 1958

Card 2/2

501/133-59-6-37/41

AUTHORS: Glinkov, M.A., Doctor of Technical Sciences and

Glinkov, G.M., Candidate of Technical Sciences

TITLE: Some Thermotechnical Problems of Large Capacity Open

Hearth Furnaces (Nekotoryye voprosy teplotekhuiki

bol'shegruznykh martenovskikh pechey)

PERIODICAL: Stal', 1959, Nr v. pp 568-572 (USSR)

ABSTRACT: Possibilities of increasing the productivity of open

hearth furnaces per unit of their calacity is discussed. It is considered that the higher the furnace capacity, the higher the quality of the solid charge should be. This would permit retaining the level of irradiation factor on decreasing of the ratio of the surface area of the bath to the furnace capacity (S/T). The higher the furnace capacity the higher the quality of the liquid iron or semiproduct should be as an increase in the thickness of the slag layer unavoidably deteriorates conditions of heat

transfer. Sufficiently advantageous heat exchange conditions inside the solid charge and liquid bath can

Card 1/4 be obtained on retaining S/T constant with increasing

S0V/133-59-6-37/41

Some Thermotechnical Problems of Large Capacity Open Hearth Furnaces

furnace capacity. In order to obtain this a different type of steelmaking furnace is necessary with a working space of to 10 - 12 m wide, hanging roof and two-sided charging (with a corresponding change in the distribution of equipment in the shop). The higher is the Layin, down property of the flame and its luminosity at the end of the smelting space the lower is non-uniformity in the heat exchange along the length of the furnace. Therefore on increasing the capacity of the furnaces, it is necessary to increase correspondingly the velocity of the fuel stream in order to obtain the required Laying down capacity of the flame. In order to improve the flame luminosity at the end of the smelting space, it is necessary to use as a fuel or a carourising agent, heavy liquid fuels with a targe ratio of C/H, on the decomposition of which complex hydrocarson complexes are formed, securing stable luminosity of the flame.

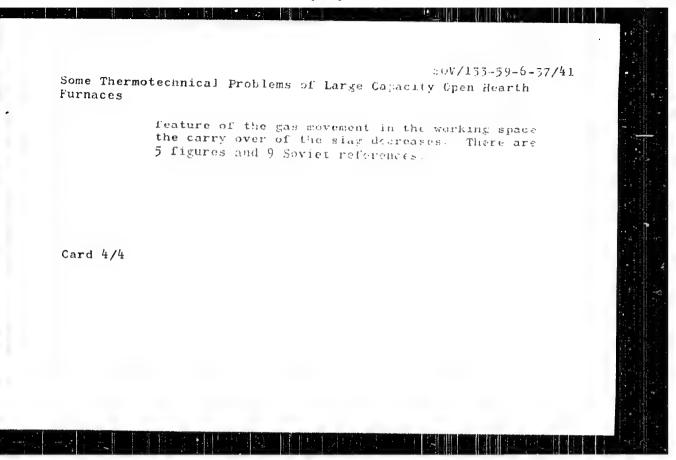
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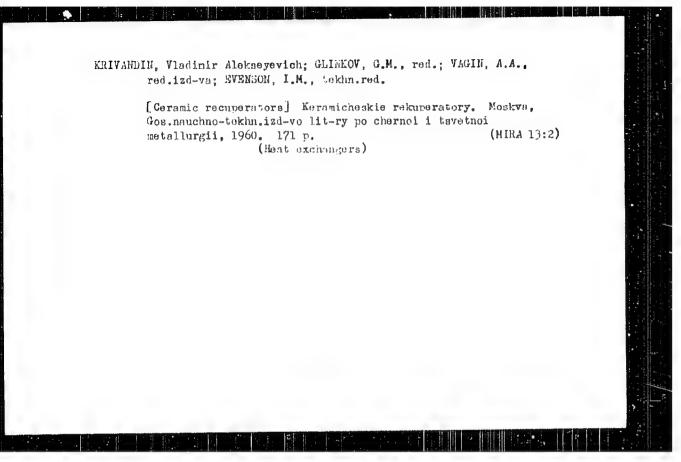
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Some Thermotechnical Problems of Large Capacity Open Hearth Furnaces

A truly uniform heating of the paths of large furnaces can be obtained with a two-sided supply of fuel into the working space i.e. with simultaneous operation of two dog houses. On transferring an open hearth furnace on firing with oil or a cold gas of a high caloratic value this problem can be solved easily by using three-channel dog houses (Fig 5). In each dog house either two side-channels or one central channel operates alternatively. The remaining three channels serve as waste was flues to pass the waste gas to the regenerators - simultaneously through both dog houses. The movement of the gas in the working space will be mixed (counter-current and recirculation). As each dog house supplies through tuyeres the same amount of fuel, the heating conditions of both nalves of the working space should be the same. All four regenerators are preheating air, the reversing system will be little changed. The separation of slag in slag pockets will be facilitated as one to the peculiar

Card 3/4





LEPORSKIY, Vladimir Vladimirovich; EAFUSTIN, Yevenny Aleksandrovich;
GLINKOV, German Markovich; MAKOVSTIY, Vitaliy Ametal yevich;
LEBEDEV, A.I., red.; LANOVSKAYA, M.R., red. ind-ve; DOBUZEINSKAYA, L.V., tekhn.red.

[Tilting open-hearth furnaces; design and heat transfer] Kachaiushchaiosia martenovskaia pechi; konstruktaiia i teplovaia
rabots. Moskva, Gos.nauchno-tekhn.izd-ve lit-ry po chernoi i
tavetnoi matallurgii, 1961. 181 p. (MIRA 14:5)

(Open-hearth furnaces--Design and construction)

(Heat--Transmission)

GLIMKOV, G.M.; FALOSHIN, N.A.; KAFUSTIN, Ye.A.; KAREDV, O.D.; HUDMAN, V.D.; KHIISH, I.I.

Results of modeling open-hearth furnaces fired by polar high-calorie gas and hot mixed gas. Izv. vys. uchet. zav.; chern. met. no.2: 138-147 '61. (MIRA 14:11)

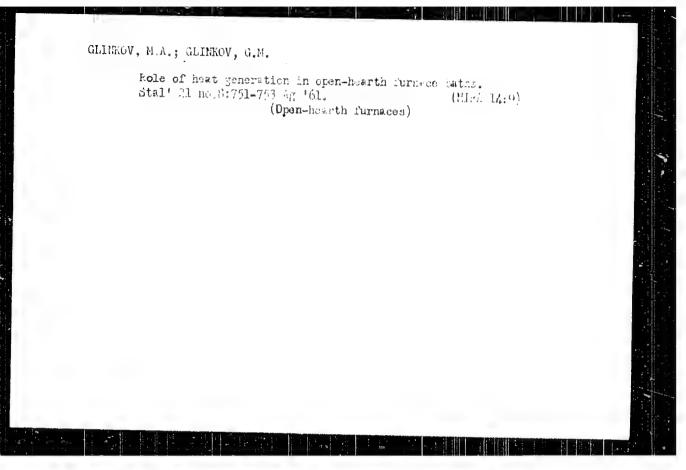
1. Zhdanovskiy metallurgicheskiy institut.
(Open-hearth furnaces--Models)
(Gas flow--Models)

GLINKOV, M.A., doktor tekhn.nauk,prof.; GLINKOV, G.M., kand.tekhn.nauk

Response to A. D. Kliuchnikov's remarks. Stal' 21 no.6:566 Je '61.

(MIRA 14:5)

(Open-hearth furnaces-Design and construction)

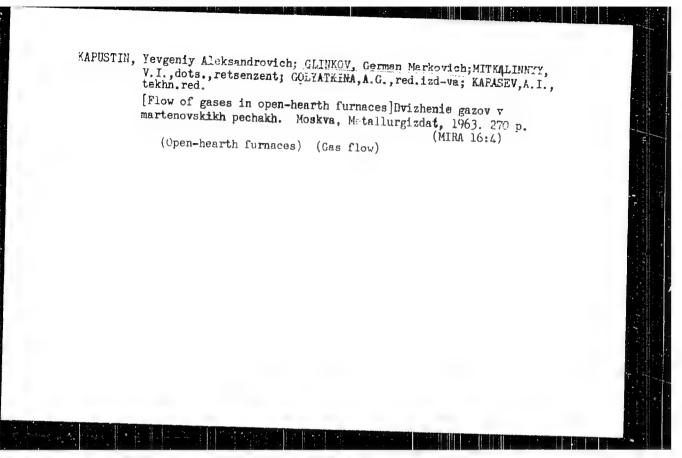


LEPORSKIY, V.V.; SLEPKAMEV, P.M.; AEKHARGILISKIY, Yu.M.; PUTCLISHAM, G.A.; GLITKOV, G.M.; EAPESTIN, Ye.A.; EALOSHIN, E.A.; KRIVERKO, P.T.

Uperation of large tilting epon-hearth furnaces with natural gas.
Stall 21 no.10:883-889 0 '6i. (MIRA 14:10)

1. Zavod "Azovstall" i Ehdam vskiy metallurgicheskiy institut.

(Open-hearth furnaces)



85-

PHASE I BOOK EXPLOITATION

807/5556

Moscov. Institut stali.

Novoye v teorii i praktike proizvodstva martemovskoy stali (New [Developmenta] in the Theory and Practice of Oren-Hearth Steelmaking) Mosecv, Metallurgizdat, 1961. 459 p. (Series: Trady Mezhvuzovskogo nauchnogo soveshchaniya) 2,150 copies printed.

Sponsoring Agency: Ministerstvo vysshego i srednego spetsial'nego obrazovaniya RSFSR. Moskovskiy institut stali imeni I. V. Stalina.

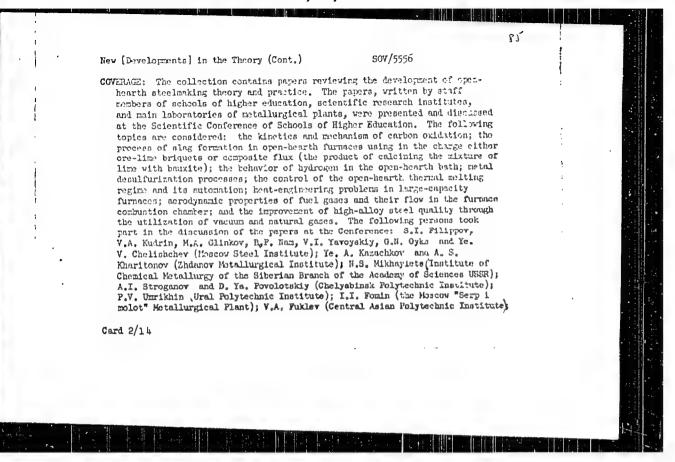
Eds.: M. A. Glinkov, Professor, Doctor of Technical Sciences, V. V. Kondukov, Professor, Doctor of Technical Sciences, V. A. Kudrin, Docent, Cancidate of Technical Sciences, G. N. Oyks, Professor, Doctor of Technical Sciences, and V. I. Yavoyskiy, Professor, Doctor of Technical Sciences; Ed.: Ye. A. Borko; Ed. of Publishing House: N. D. Gromov; Tech. Ed.: A. I. Karasev.

PURPOSE: This collection of articles is intended for members of scientific institutions, faculty members of schools of higher education, engineers concerned with metallurgical processes and physical chemistry, and students specializing in these fields.

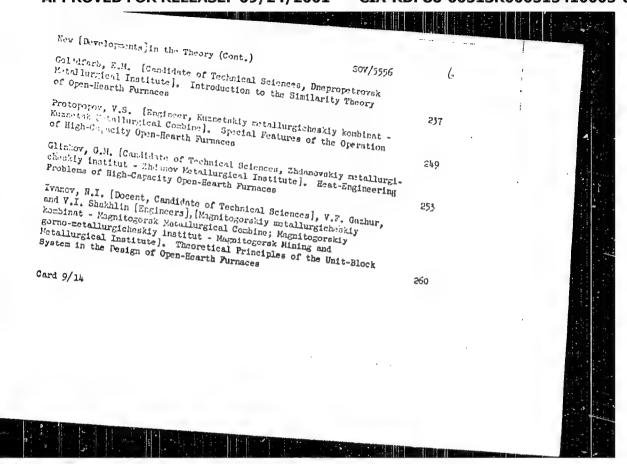
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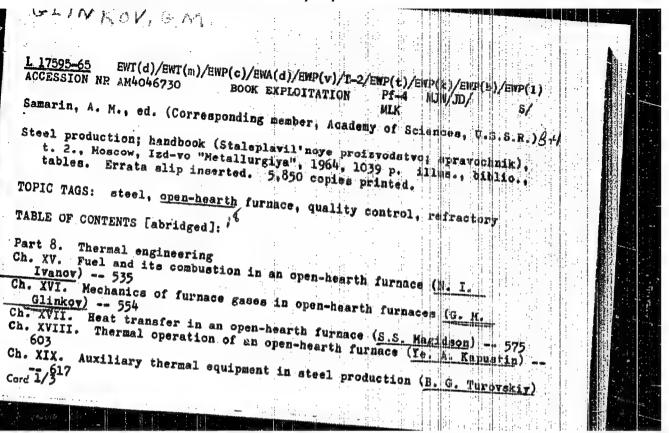
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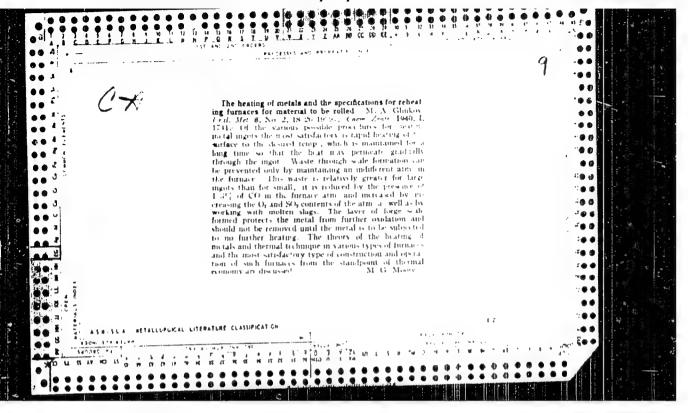
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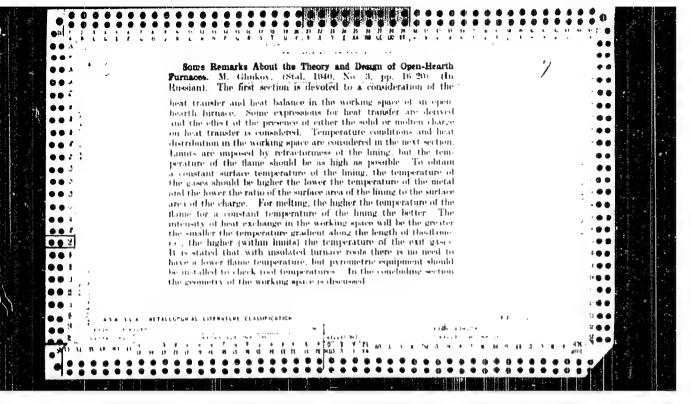


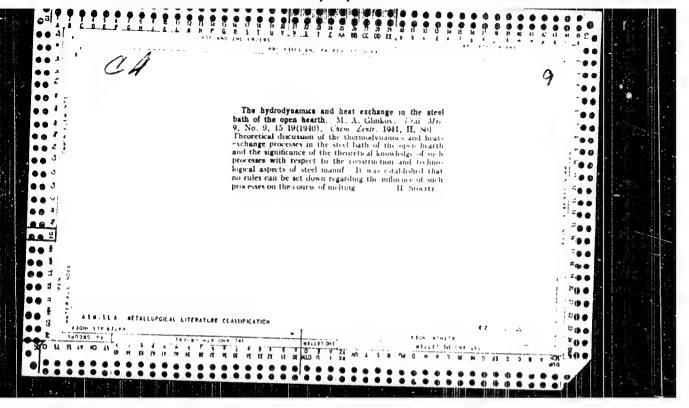


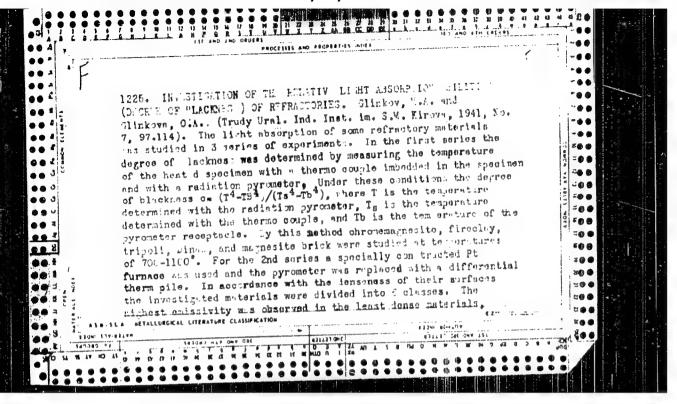
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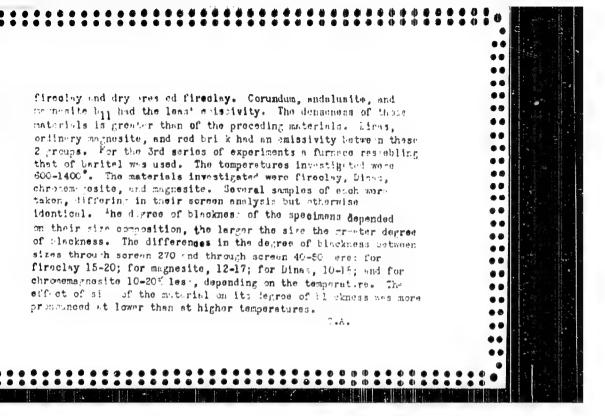
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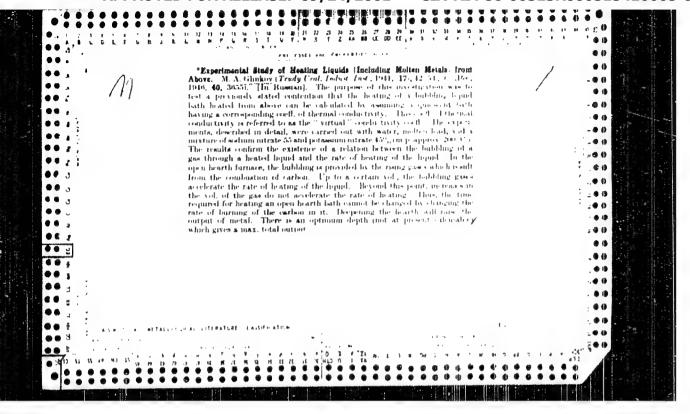


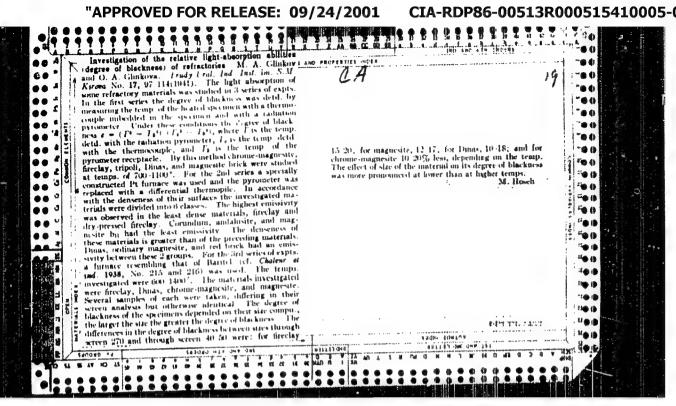


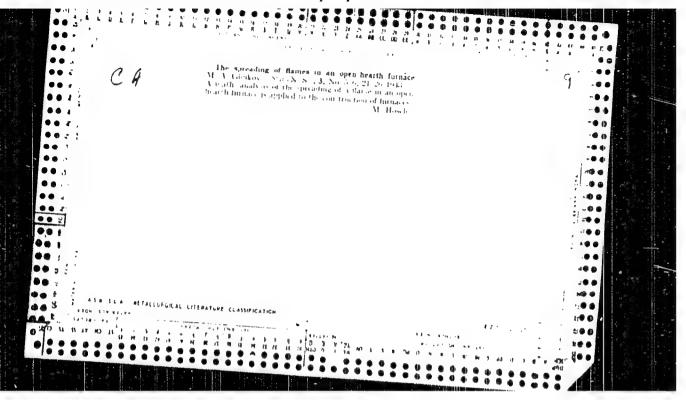


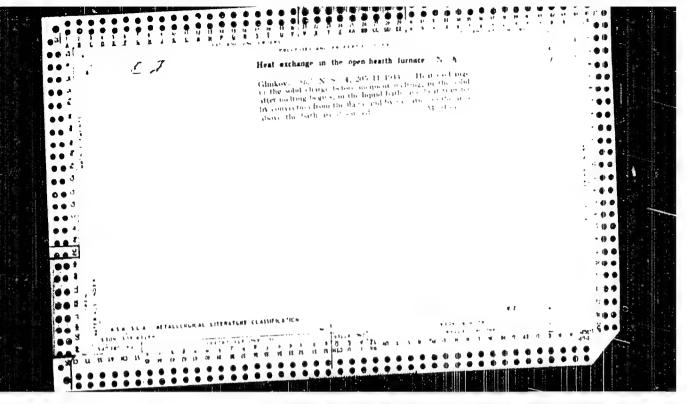


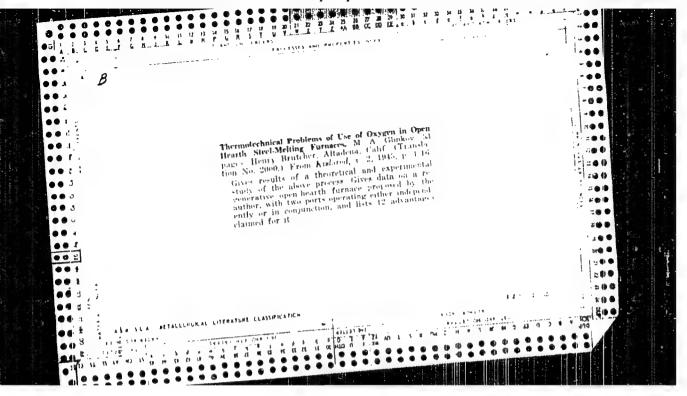


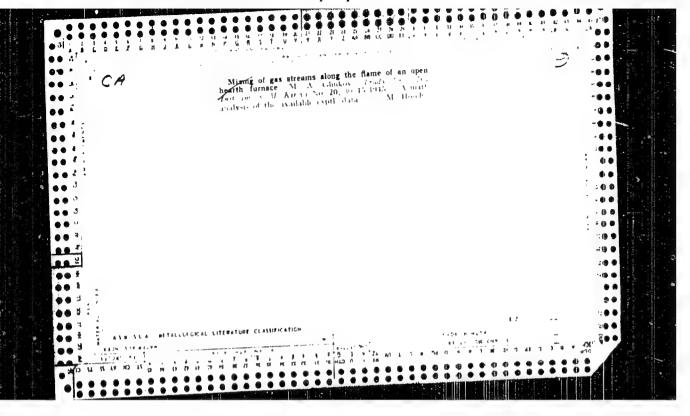


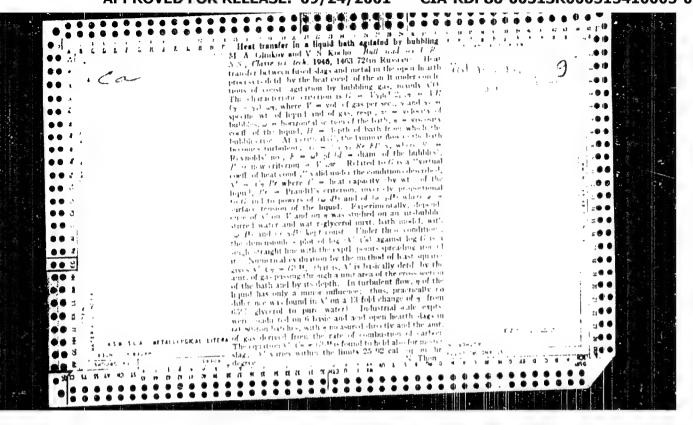


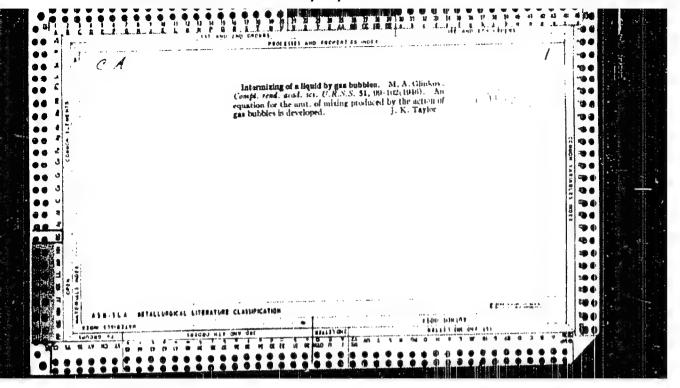


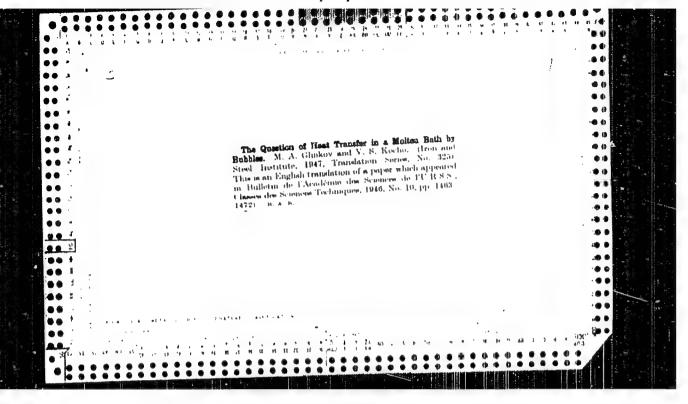


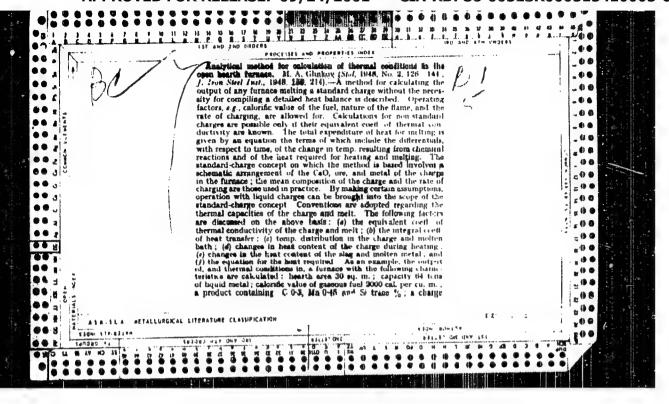


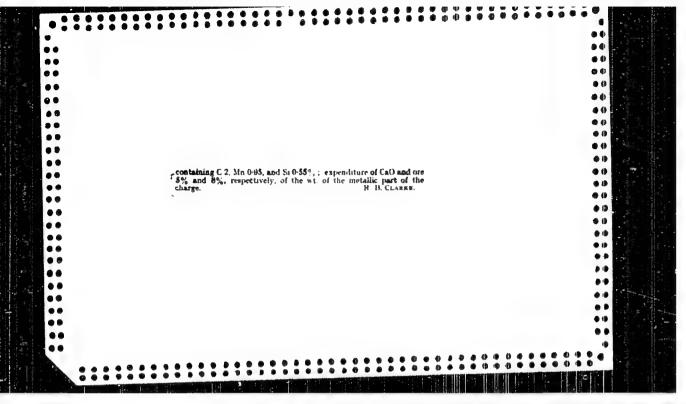


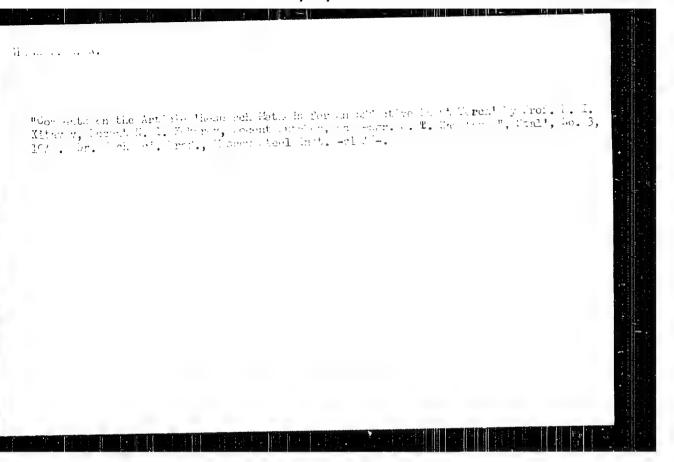


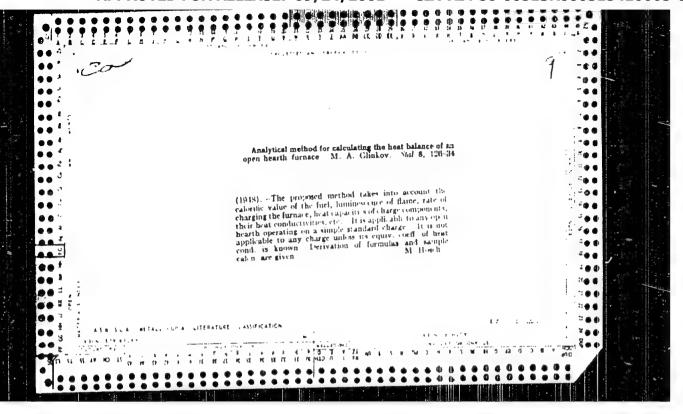


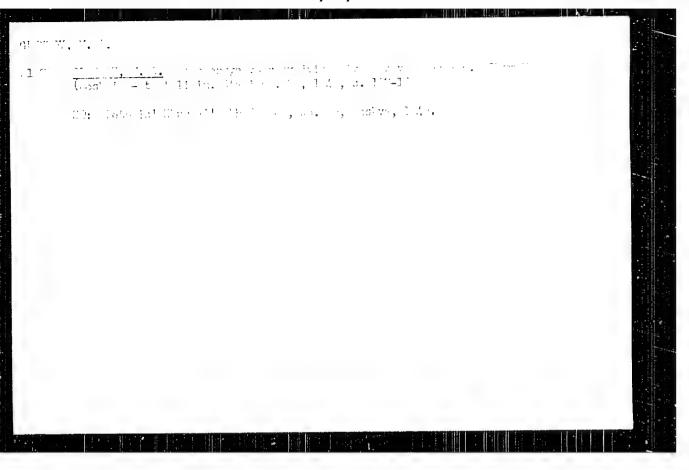








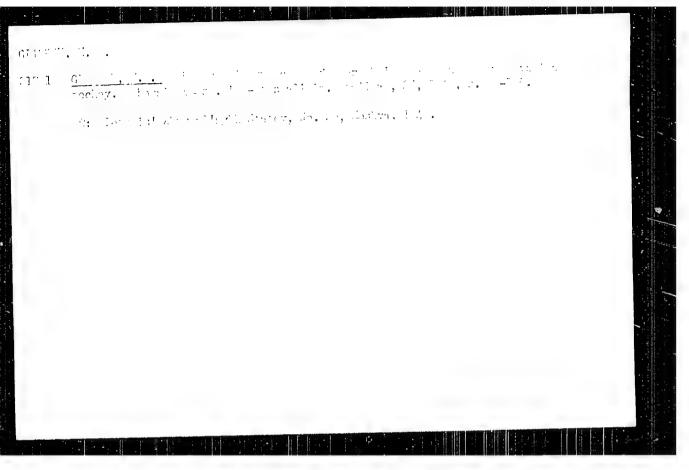


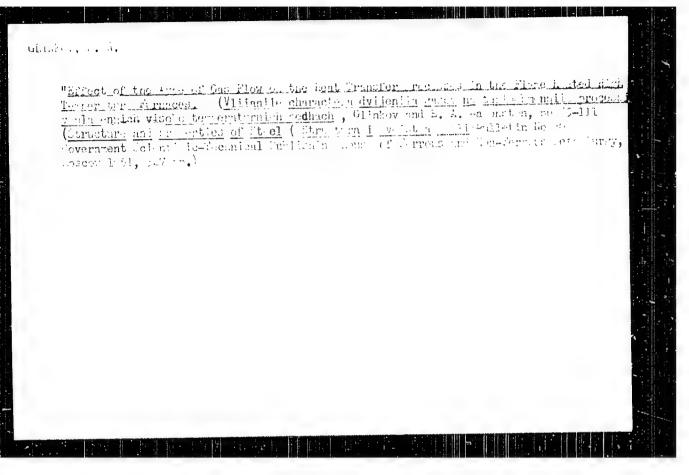


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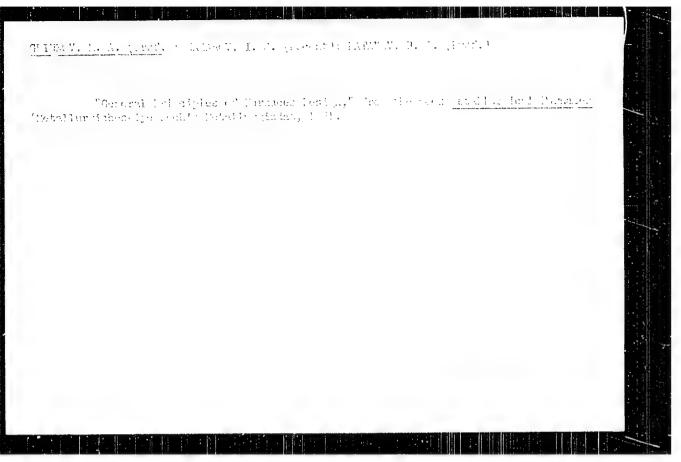
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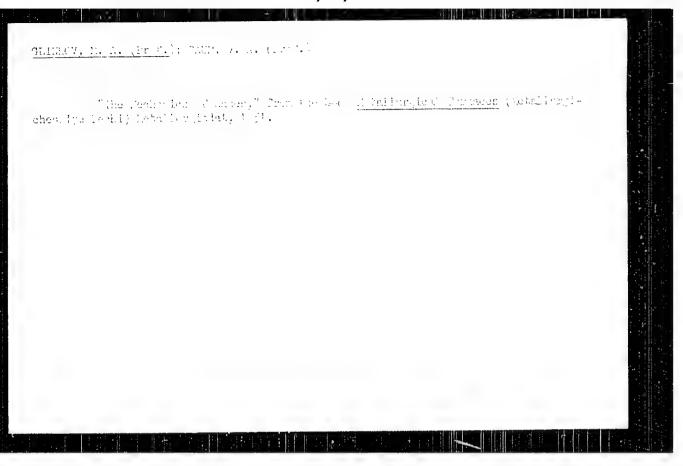
Metallurgicheskiye pechi

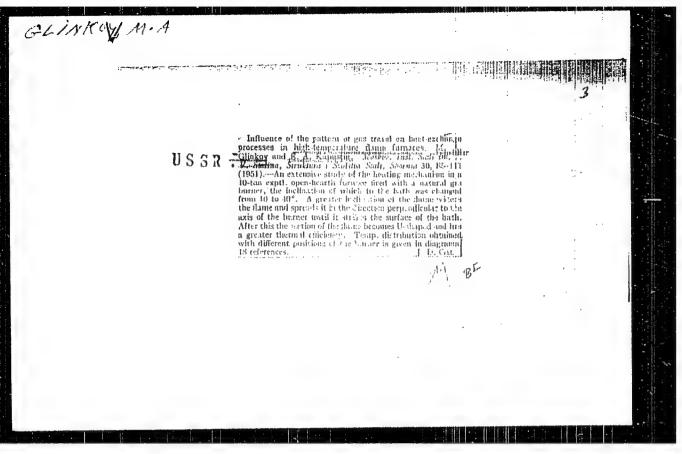
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The basic principles of heat engineering, mechanics of gases, theory of analogies, transmission of heat, tempering, smelting and cooling of metals are treated in detail with elaborate mathematical formulac. The auxiliary equipment of the combustion chamber is minutely described and illustrated. Blast and open-hearth furnaces and the heat-treatment furnaces used in ferrous metallurgy, the shaft furnaces, reverberatory, tubular rotary and crucible furnaces used in nonferrous metallurgy, as well as electric resistance, induction and electric arc furnaces are described. (Electric furnaces in ferrous metallurgy and their control and automatic equipment are not given but will be discussed in a book to be published later). The book is abundantly illustrated with diagrams, mathematical formulae and charts. This book is compiled by collaboration. The 13 authors presented a chapter or division. Their manuscripts underwent a mutual evaluation, correction and critical discussion by the other members of the collective, and then were incorporated into the book.

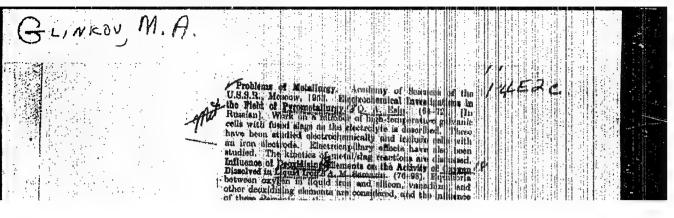
No. of References: 175 Russian, 1925-1950
Facilities: Moskva Institute of Steel; Ural Polytechnic Institute;
Dnepropetrovsk Metallurgical Institute; Moskva Institute of Nonferrous Metals and Gold; Leningrad Polytechnic Institute; Siberian Metallurgical Institute; and State Scientific Research Institute of Nonferrous Metals.







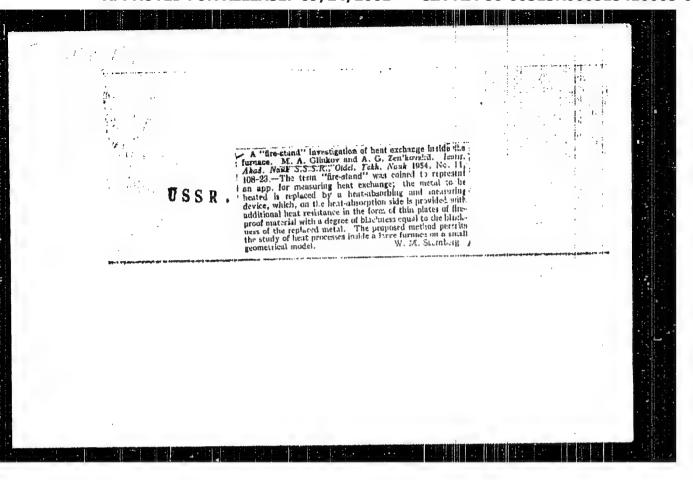
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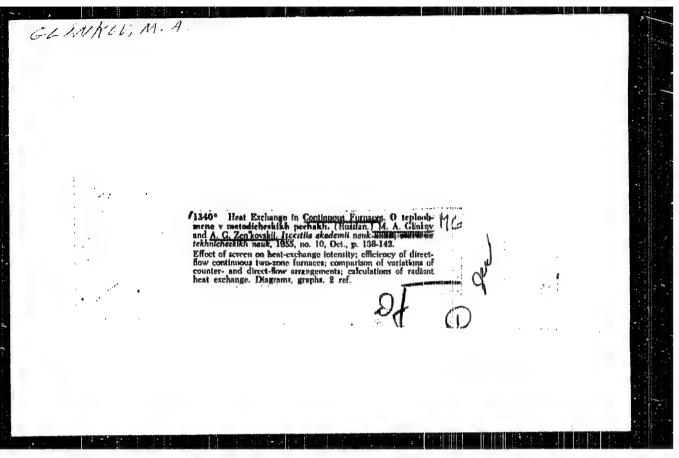


GLINKOV, M.A., professor, doktor; REKHTMAN, M.Ya., kandidat tekhnicheskikh nauk.

Movement of gases in the hearth of open-hearth furnaces. Shor.Inst.stali
no.31:285-317 '53.

1.Kafedra "Metallurgicheskiye pechi".
(Open-hearth furnaces) (Gas flow)



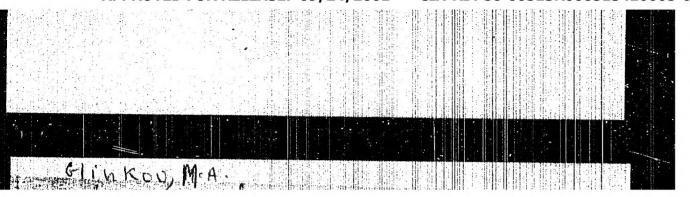


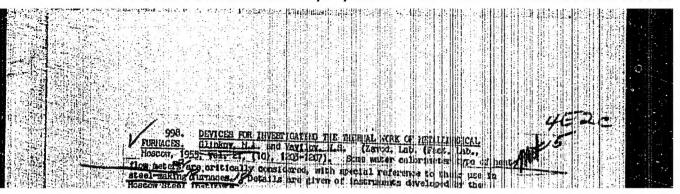
GLINKOV, H.A.; VAVILOV, N.S.

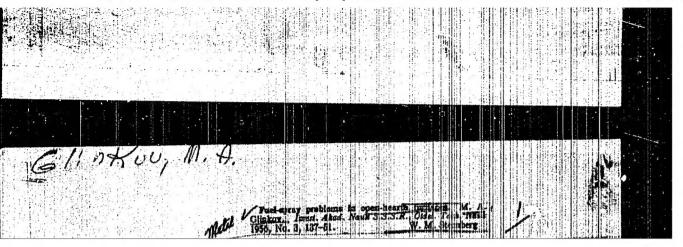
Instruments for investigating the thermal operation of metallurgical furnaces. Zav.lab.21 no.10:1203-1207 '55. (MLRA 9:1)

1.Moskovskiy institut stali imeni Stalina.

(Thermometers) (Metallurgical furnaces)







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